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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/810,728	03/26/2004	Motoki Ito	81872.0060	9671
26021	7590 05/10/2006		EXAMINER	
HOGAN & HARTSON L.L.P.			ADDISON, KAREN B	
500 S. GRAND AVENUE SUITE 1900			ART UNIT	PAPER NUMBER
	ES, CA 90071-2611		2834	
			DATE MAILED: 05/10/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/810,728	ITO ET AL.
Office Action Summary	Examiner	Art Unit
	Karen B. Addison	2834
The MAILING DATE of this communication app	ears on the cover sheet v	vith the correspondence address
Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute. Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 36(a). In no event, however, may a vill apply and will expire SIX (6) MO , cause the application to become	ICATION. reply be timely filed NTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).
Status		
1)⊠ Responsive to communication(s) filed on 06 Fe	ahruany 2006	
	action is non-final.	<u>:</u>
3) Since this application is in condition for allowar	•	tters, prosecution as to the merits is
closed in accordance with the practice under E	· ·	•
' Closed in accordance with the practice and a	x parto quayro, 1000 o.	
Disposition of Claims		· · · · · · · · · · · · · · · · · · ·
4) Claim(s) 1-19 is/are pending in the application.		
4a) Of the above claim(s) is/are withdraw	vn from consideration.	
5) Claim(s) is/are allowed.		:
6)⊠ Claim(s) <u>1-19</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and/or	r election requirement.	·
·		
Application Papers		
9) The specification is objected to by the Examine	r.	
10)⊠ The drawing(s) filed on <u>3/26/06</u> is/are: a)⊠ acc	cepted or b) objected	o by the Examiner.
Applicant may not request that any objection to the	drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correct	ion is required if the drawin	g(s) is objected to. See 37 CFR 1.121(d).
11) The oath or declaration is objected to by the Ex	aminer. Note the attache	d Office Action or form PTO-152.
Priority under 35 U.S.C. § 119		:
<u> </u>		0.440(.)(1) (0)
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C.	§ 119(a)-(d) or (f).
a)⊠ All b)□ Some * c)□ None of:		
1. ☐ Certified copies of the priority documents		Ampliantiam Na
2. Certified copies of the priority documents		
3. Copies of the certified copies of the prior	· •	i received in this National Stage
application from the International Bureau	• • • • • • • • • • • • • • • • • • • •	t manning of
* See the attached detailed Office action for a list	or the certified copies no	received.
Attachment(s)		
1) X Notice of References Cited (PTO-892)	4) 🗍 Interview	Summary (PTO-413)
2) D Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No	(s)/Mail Date
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	· =	Informal Patent Application (PTO-152)
Paper No(s)/Mail Date	6)	_

Art Unit: 2834

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1,6-8,10,15 and 18 are rejected under 35 U.S.C. 102(b) as being anticipated by Ogawa (469).

Ogawa teaches a surface acoustic device in figs.1-5 and 12-20 including piezoelectric substrate (4), an electrode (5) form on one main surface of the piezoelectric subsrate, to be at a ground potential (7), and an IDT electrodes (5a-5b, 6a-6b) formed on the one main surface of the piezoelectric substrate (4). Wherein the IDT electrode is an electrode comprising paired comb-teeth-shaped electrodes (5a-5b, 6a-6b), each having plural electrode fingers, oppositely placed in such a manner that the electrode fingers of one comb teeth shaped electrode are positioned between the electrode fingers of the other comb-teeth-shaped electrode. Either of the comb-teeth-electrode forming the IDT electrode (5 and 6) is connected to the electrode to be at the ground potential via a metal oxide resistor (19) see cool 2- In4-col 3 In 60) formed on the piezoelectric substrate. Note that a metal oxide resistor is considered to be a semi conductor resistor.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Art Unit: 2834

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 2-5, 11-14, and 16-17 rejected under 35 U.S.C. 103(a) as being unpatentable over Ogawa in view of Sugai (101).

Ogawa, as described above, teaches all the claim structure but does not explicitly use some of the particular materials claimed. However, it has long been held that selection form among known suitable materials is within the skill expected of the routineer. Since all the claimed materials are known resistive materials (official notice taked) (not e.g. poly crystalline silicone resistor used by Sugai (col. 6 In 47-52), selection of these known resistors to be used in lieu of the metal oxide semiconductor resistor material used by Ogawa would have been obvious to one of ordinary skill in the art.

5. Claim 9-19 rejected under 35 U.S.C. 103(a) as being unpatentable over Ogawa Ogawa, as describe above teaches the surface acoustic wave device per se but does not explicitly show its incorporation into the specific communications device describe in theses claims. However, the communication device including surface acoustic wave transducer therein is known per se (official notice taken-see also applicants specification pages 1-4). It would have been obvious to one of ordinary skill in the art to incorporate the improved surface acoustic wave device taught by Ogawa into any known system that use a surface acoustic wave device, since Ogawa's surface acoustic wave device includes protection against pyro electric discharge caused by thermo shock.

Art Unit: 2834

Further cited documents are Dufilie (note fig.1 and 2 #29), Hikita (see#99, #911 fig.9) Flowers (fig.1) and Mitsutsuka.

Response to Arguments

6. Applicant's arguments filed 1/4/2006 have been fully considered but they are not persuasive.

In response to the applilcant's argument that, Ogawa does not teach the ground electrode formed on the main surface of the piezoelectric substrate is noted. However, Ogawa teaches the ground electrodes known as a tap electrodes (6) which is electrical connected through the resistor to the ground potential which is locate on the main surface of the substrate(fig.15b) thereby, making the tap electrode a grounding electrode..

In response to the applicant's argument that, Ogawa fails to disclose semiconductor resistor are noted. However, Col 13 line 37-42 discloses that the resistor may be a fixed resistor and the resistor alternatively be the same as semiconductor glass material, semiconductor resin material and a metal oxide material resistor.

In response to the applicant's argument that, Surgai does not teach the deficiencies of Ogawa is noted. However, Since Surgai reference from the same field of endeavor of Ogawa, the selection among known suitable materials is within the skill expected of the routineer. Since all the claimed materials are known resistive materials (official notice taked) (not e.g. poly crystalline silicone resistor used by Sugai (col. 6 In 47-52), selection of these known resistors to be used in lieu of the metal oxide semiconductor

Art Unit: 2834

resistor material used by Ogawa and would have been obvious to one of ordinary skill in the art.

In response to the applicant's argument that, the communication device Ogawa lacks deficiencies is noted. However, the communication device including surface acoustic wave transducer therein is known per se (official notice taken-see also applicants specification pages 1-4). It would have been obvious to one of ordinary skill in the art to incorporate the improved surface acoustic wave device taught by Ogawa into any known system that use a surface acoustic wave device, since Ogawa's surface acoustic wave device includes protection against pyro electric discharge caused by thermo shock.

Further cited documents are Masuda(US.5016260) for communication device with Transducer having power amplifier, filter, and switching circuit.

Conclusion

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karen B. Addison whose telephone number is 571-272-2017. The examiner can normally be reached on 8:00 to 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on 571-272-2044. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KBA 4/15/06 DABREN SCHUBERG SUPERVISORY PATEL EXAMINER TECHNOLOGY CENTER 2800